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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/761,047	VAN DOREN ET AL.			
Office Action Summary	Examiner	Art Unit			
	BARBARA N. BURGESS	2157			
The MAILING DATE of this communication	appears on the cover sheet with	the correspondence address			
Period for Reply	DI V IO OET TO EVENE . MO	NTU(O) OD TUIDTY (OO) DAYO			
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 1.136(a). In no event, however, may a replication will apply and will expire SIX (6) MONTH tute, cause the application to become ABAN	ATION.  ly be timely filed  IS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 06	December 2007.				
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ T	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.				
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) 1-38 is/are pending in the application 4a) Of the above claim(s) is/are without 5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1-38 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and	Irawn from consideration.				
Application Papers					
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to to Replacement drawing sheet(s) including the cord 11) The oath or declaration is objected to by the	accepted or b) objected to by the drawing(s) be held in abeyance rection is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore  a) All b) Some * c) None of:  1. Certified copies of the priority docume  2. Certified copies of the priority docume  3. Copies of the certified copies of the papplication from the International Bur  * See the attached detailed Office action for a	ents have been received. ents have been received in Apprincity documents have been re eau (PCT Rule 17.2(a)).	olication Noeceived in this National Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)		mmary (PTO-413)			
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>		Mail Date ormal Patent Application			

#### **DETAILED ACTION**

This Office Action is in response to Amendment filed December 6, 2007. Claims 1-38 are presented for further examination.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gupta et al. (US Patent 5,535,116) in view of Arimilli et al. (hereinafter "Ari", US Patent Publication 2002/0129211 A1) in further view of Bauman et al. (hereinafter "Bauman", US Patent 7,032,079 B1).

As per claims 1, 29, and 34, Gupta discloses a system and method comprising:

- A first node, which defines a first processor, provides a broadcast request for a copy of data, (column 3, lines 16-25, 59-65, column 5, lines 20-25, column 10, lines 47-50);
- A third node that provides the requested copy of the data to the first node in response to the broadcast request from the first node, the first node filling the data

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provided by the third node in a cache associated with the first node (column 4, lines 4-6, column 10, lines 61-67, column 13, lines 30-35, 60-65).

Gupta does not explicitly disclose:

the first node receiving a read conflict response to the broadcast request from the
first node, the read conflict response indicating that a second node, which defines a
second processor, has a pending broadcast read request for the data.

However, the use and advantages for the first node receiving a read conflict response to the broadcast request from the first node, the read conflict response indicating that a second node has a pending broadcast read request for the data is well known to one skilled in the relevant art at the time the invention was made as evidenced by the teachings of Ari (paragraphs [0012, 0026, 0032]).

Therefore, one of ordinary skill in art at the time the invention was made would have found it obvious to incorporate or implement Ari's first node receiving a read conflict response to the broadcast request from the first node in Gupta's system in order to determine what action should be taken.

Gupta, in view of Ari, does not explicitly disclose:

The first node including conflict state machine for managing non-data responses to the broadcast request for the data provided from the first node;

The conflict machine transitioning to a conflict state in response to the first node receiving the read conflict response.

However, in an analogous art, Bauman discloses when a conflict is detected with a read request, the state machine processing the original request will set a state bit and an

indicator that causes response out queue to remove data from the read buffer (column 13, lines 53-67).

Therefore, one of ordinary skill in the art at the time the invention was made would have found it obvious to implement or incorporate Bauman's state machine in Gupta's system in order to indicate there is no longer any provisional data entry within the read buffer.

As per claim 2, Gupta discloses the system of claim 1, wherein the broadcast request provided by the first node is a source broadcast read request (column 10, lines 47-50).

As per claim 3, Gupta discloses the system of claim 2, wherein the first node provides a read conflict response to the broadcast read request from the second node, the read conflict response provided by the first node indicating that the broadcast read request of the first node conflicts with the pending broadcast read request of the second node (column 11, lines 15-22, 40-55).

As per claim 4, Gupta discloses the system of claim 3, wherein the third node provides the requested data to the second node in response to the broadcast read request from the second node, the second node filling the data provided by the third node in a cache associated with the second node (column 3, lines 60-67, column 4, lines 1-5).

As per claim 5, Gupta discloses the system of claim 1, wherein the request for data broadcast by the first node is a source broadcast write request (column 11, lines 10-13).

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As per claim 6, Gupta does not explicitly disclose the system of claim 5, wherein the first node provides a second conflict response to the pending broadcast read request from the second node, the second conflict response provided by the first node indicating that the write request broadcast by the first node conflicts with the broadcast read request from the second node.

However, the use and advantages for the first node receiving a read conflict response to the broadcast request from the first node, the read conflict response indicating that a second node has a pending broadcast read request for the data is well known to one skilled in the relevant art at the time the invention was made as evidenced by the teachings of Ari (paragraphs [0012, 0026, 0032]).

Therefore, one of ordinary skill in art at the time the invention was made would have found it obvious to incorporate or implement Ari's first node receiving a read conflict response to the broadcast request from the first node in Gupta's system in order to determine what action should be taken.

As per claim 7, Gupta discloses the system of claim 6, wherein the broadcast request provided by the first node is broadcast using a first cache coherency protocol, the second node in response to the second conflict response provided by the first node

reissues the pending broadcast read request of the second node (column 2, lines 17-20, 66-67, column 3, lines 59-67).

Gupta does not explicitly disclose conflict state machine.

However, in an analogous art, Bauman discloses when a conflict is detected with a read request, the state machine processing the original request will set a state bit and an indicator that causes response out queue to remove data from the read buffer (column 13, lines 53-67).

Therefore, one of ordinary skill in the art at the time the invention was made would have found it obvious to implement or incorporate Bauman's state machine in Gupta's system in order to indicate there is no longer any provisional data entry within the read buffer.

As per claim 8, Gupta discloses the system of claim 7, wherein the first cache coherency protocol is a source broadcast cache coherency protocol and the second node reissues the broadcast read request using a forward progress cache coherency protocol (column 5, lines 21-25, column 8, lines 49-52, 57-60).

As per claim 9, Gupta discloses the system of claim 6, wherein the third node provides the requested data to the second node in response to the pending broadcast read request of the second node (column 11, lines 40-67).

Gupta does not explicitly disclose the second conflict response provided by the first node preventing the second node from filling the data provided by the third node in a cache associated with the second node.

However, the use and advantages for the first node receiving a read conflict response to the broadcast request from the first node, the read conflict response indicating that a second node has a pending broadcast read request for the data is well known to one skilled in the relevant art at the time the invention was made as evidenced by the teachings of Ari (paragraphs [0012, 0026, 0032]).

Therefore, one of ordinary skill in art at the time the invention was made would have found it obvious to incorporate or implement Ari's first node receiving a read conflict response to the broadcast request from the first node in Gupta's system in order to determine what action should be taken.

As per claim 10, Gupta disclose the system of claim 6, wherein the third node provides shared data to the second node in response to the pending broadcast read request of the second node, the second node filling a cache associated with the second node with the shared data and associating an invalid state with the shared data filled in the cache associated with the second node (column 11, lines 50-67).

As per claim 11, Gupta discloses the system of claim 1, wherein the third node comprises one of a home node and an owner node (column 9, lines 56-64).

As per claim 12, Gupta discloses the system of claim 1, wherein the broadcast request provided by the first node is broadcast using a source broadcast cache coherency protocol (column 9, lines 56-65).

Gupta does not explicitly disclose conflict state machine.

However, in an analogous art, Bauman discloses when a conflict is detected with a read request, the state machine processing the original request will set a state bit and an indicator that causes response out queue to remove data from the read buffer (column 13, lines 53-67).

Therefore, one of ordinary skill in the art at the time the invention was made would have found it obvious to implement or incorporate Bauman's state machine in Gupta's system in order to indicate there is no longer any provisional data entry within the read buffer.

As per claim 13, Gupta discloses the system of claim 1, the first and second processors having an associated cache, the associated caches of the first and second processors each comprising a plurality of cache lines, each cache line having a respective tag address that identifies associated data and each cache line having state information that indicates a state of the associated data for the respective cache line, the first and second processors being capable of communicating with each other and with other nodes of the system tllrough an interconnect (column 13, lines 56-67).

As per claim 14, Gupta discloses the system of claim 13, further comprising a first cache controller associated with the first processor and a second cache controller associated with the second processor, the first cache controller being operative to manage data requests and responses for the associated cache of the first processor, the first cache controller effecting state transitions associated with the data in the associated cache of the first processor based on the data requests and responses for the associated cache of the first processor, the second cache controller being operative to manage data requests and responses for the associated cache of the second processor, the second cache controller effecting state transitions associated with the data in the associated cache of the second processor based on the data requests and responses for the associated cache of the second processor (column 3, lines 27-35, column 6, lines 10-15, column 9, lines 25-35).

As per claim 15, Gupta discloses the system of claim 13, wherein the system implements a hybrid cache coherency protocol wherein each of the first, second, and third processors employs a source broadcast-based protocol to issue a request for the data and provide responses for the data, and employs an associated second protocol to reissue a request for the data in response to the request failing in the source broadcast protocol, the second protocol employing a forward progress technique (column 2, lines 17-20, 63-67).

As per claims 16, 24, Gupta discloses a multi-processor network and computer system comprising:

- A first processor node operative to issue a first source broadcast request for data (column 3, lines 16-25, 59-65, column 5, lines 20-25, column 10, lines 47-50);
- A second processor node operative to issue a second source broadcast request for the data (column 11, lines 39-53, column 14, lines 37-45);
- A third node operative to provide a data response in response to the respective source broadcast requests of the first and second processor nodes, the third node being one of an owner processor node and a memory node (column 4, lines 4-6, column 10, lines 61-67, column 13, lines 30-35, 60-65).

Gupta does not explicitly disclose:

- The second processor node being operative to provide a read conflict response to the first source broadcast request when the second source broadcast request is a read request, the second processor node being operative to provide a second conflict response to the first source broadcast request when the second source broadcast request is a write request;
- The first processor node being operative in response to receiving a read conflict response from the second processor to implement a cache with the data provided by the third node.

However, the use and advantages for the first node receiving a read conflict response to the broadcast request from the first node, the read conflict response indicating that a second node has a pending broadcast read request for the data is well known to one

skilled in the relevant art at the time the invention was made as evidenced by the teachings of Ari (paragraphs [0012, 0026, 0032]).

Therefore, one of ordinary skill in art at the time the invention was made would have found it obvious to incorporate or implement Ari's first node receiving a read conflict response to the broadcast request from the first node in Gupta's system in order to determine what action should be taken.

Gupta, in view of Ari, does not explicitly disclose:

The first node including conflict state machine for managing non-data responses to the broadcast request for the data provided from the first node;

The conflict machine transitioning to a conflict state in response to the first node receiving the read conflict response.

However, in an analogous art, Bauman discloses when a conflict is detected with a read request, the state machine processing the original request will set a state bit and an indicator that causes response out queue to remove data from the read buffer (column 13, lines 53-67).

Therefore, one of ordinary skill in the art at the time the invention was made would have found it obvious to implement or incorporate Bauman's state machine in Gupta's system in order to indicate there is no longer any provisional data entry within the read buffer.

As per claim 17, Gupta discloses the multi-processor network of claim 16, wherein the first processor node is operative in response to a write conflict response from the

second processor node to issue a request for the data using a forward progress technique (column 11, lines 15-20, 40-53).

As per claim 18, Gupta does not explicitly discloses the multi-processor network of claim 17, wherein the second conflict response from the second processor node prevents the first processor node from implementing the cache with the data provided by the third node.

However, the use and advantages for the first node receiving a read conflict response to the broadcast request from the first node, the read conflict response indicating that a second node has a pending broadcast read request for the data is well known to one skilled in the relevant art at the time the invention was made as evidenced by the teachings of Ari (paragraphs [0012, 0026, 0032]).

Therefore, one of ordinary skill in art at the time the invention was made would have found it obvious to incorporate or implement Ari's first node receiving a read conflict response to the broadcast request from the first node in Gupta's system in order to determine what action should be taken.

As per claim 19, Gupta discloses the multi-processor network of claim 16, wherein the first source broadcast request is one of a source broadcast write request and a source broadcast read request (column 10, lines 47-50).

As per claim 20, Gupta discloses the multi-processor network of claim 16, wherein the source broadcast request issued by the first processor node exists concurrently with the source broadcast request issued by the second processor node (column 11, lines 15-22, 40-55).

As per claim 21, Gupta discloses the multi-processor network of claim 16, wherein the third processor node provides shared data to the second processor node in response to the second processor node providing the second source broadcast request as a broadcast read request, the second processor node filling the shared data in a cache associated with the second processor node and associating an invalid state with the data in the cache associated with the second processor node (column 11, lines 50-67).

As per claim 22, Gupta discloses the multi-processor network of claim 16, wherein each of the first, second, and third processor nodes has an associated cache that comprises a plurality of cache lines, each cache line having a respective tag address that identifies associated data and having state information that indicates a state of the associated data for the respective cache line, the first, second, and third processor nodes being capable of communicating with each other and with other nodes of the system through an interconnect, the multi-processor network further comprising a first cache controller associated with the first processor node, a second cache controller associated with the second processor node, and a third cache controller associated with the third processor node, the first cache controller being operative to manage data requests and responses

15, column 9, lines 25-35).

for the associated cache of the first processor, the first cache controller effecting state transitions associated with the data in the associated cache of the first processor based on the data requests and responses for the associated cache of the first processor, the second cache controller being operative to manage data requests and responses for the associated cache of the second processor, the second cache controller effecting state transitions associated with the data in the associated cache of the second processor based on the data requests and responses for the associated cache of the second processor, the third cache controller being operative to manage data requests and responses for the associated cache of the third processor, the third cache controller effecting state transitions associated with the data in the associated cache of the third processor based on the data requests and responses for the associated cache of the third processor based on the data requests and responses for the associated cache of the third processor based on the data requests and responses for the associated cache of the third processor (column 3, lines 27-35, column 6, lines 10-

As per claim 23, Gupta discloses the multi-processor network of claim 16, wherein the network implements a hybrid cache coherency protocol in which each of the first, second, and third processor nodes employs a source broadcast-based protocol to issue requests for data and provide responses to requests, and employs an associated protocol employing a forward progress technique to reissue a request for data in response to a request failing in the source broadcast protocol (column 1, lines 20-25, column 2, lines 18-20, 63-67).

As per claim 25, Gupta discloses the computer system of claim 24, wherein the first processor in response to the second conflict response of the second processor is operative to reissue the source broadcast request from the first processor by issuing a request for the data employing a forward progress protocol (column 3, lines 59-65).

As per claim 26, Gupta discloses the computer system of claim 24, wherein the second conflict response from the second processor prevents the first processor from filling the data provided by the third processor in the cache associated with the first processor (column 11, lines 40-50).

As per claim 27, Gupta discloses the computer system of claim 24, wherein the third processor provides a shared data response to the first processor in response to the source broadcast request for the data, the first processor being operative to place the shared data in the cache associated with the first processor and associate an invalid state with the data in the cache associated with the first processor (column 12, lines 10-25).

As per claim 28, Gupta discloses the computer system of claim 24, wherein the computer system implements hybrid cache coherency protocol in which each of the first, second, and third processor employs a source broadcast-based protocol to issue requests for data and provide responses to requests, and employs an associated protocol employing a forward progress technique to reissue a request for data in

response to a request failing in the source broadcast protocol (column 1, lines 20-25, column 2, lines 18-20, 63-67).

As per claim 30, Gupta discloses the system of claim 29, wherein the means for providing a broadcast request from the first node comprises means for providing a broadcast read request for the data from the first node, the system further comprising:

- Means for providing the requested data to the second node from the third node in response to the broadcast read request of the second node (column 3, lines 16-25, 59-65, column 5, lines 20-25, column 10, lines 47-50);
- Means for filling the data provided to the second node by the third node in a cache associated with the second node in response to the second node receiving the read conflict response from the first node (column 4, lines 4-6, column 10, lines 61-67, column 13, lines 30-35, 60-65).

Gupta does not explicitly disclose:

• Means for providing a read conflict response from the first node to the second node in response to the broadcast read request of the second node, the read conflict response from the first node indicating that the pending broadcast read request of the second node conflicts with the broadcast read request for the data from the first node. However, the use and advantages for the first node receiving a read conflict response to the broadcast request from the first node, the read conflict response indicating that a second node has a pending broadcast read request for the data is well known to one

skilled in the relevant art at the time the invention was made as evidenced by the teachings of Ari (paragraphs [0012, 0026, 0032]).

Therefore, one of ordinary skill in art at the time the invention was made would have found it obvious to incorporate or implement Ari's first node receiving a read conflict response to the broadcast request from the first node in Gupta system in order to determine what action should be taken.

As per claim 31, Gupta discloses the system of claim 29, wherein the means providing a broadcast request from the first node comprises means for providing a broadcast write request for the data from the first node, the system further comprising:

Means for reissuing the broadcast read request of the second node employing a
forward progress protocol in response to the second conflict response provided by the
first node (column 3, lines 59-65).

Gupta does explicitly disclose:

 Means for providing a second conflict response from the first node to the second node in response to the pending broadcast read request of the second node, the second conflict response from the first node indicating that the pending broadcast read request of the second node conflicts with the broadcast write request for the data from the first node.

However, the use and advantages for the first node receiving a read conflict response to the broadcast request from the first node, the read conflict response indicating that a second node has a pending broadcast read request for the data is well known to one

skilled in the relevant art at the time the invention was made as evidenced by the teachings of Ari (paragraphs [0012, 0026, 0032]).

Therefore, one of ordinary skill in art at the time the invention was made would have found it obvious to incorporate or implement Ari's first node receiving a read conflict response to the broadcast request from the first node in Gupta's system in order to determine what action should be taken.

As per claim 32, Gupta disclose the system of claim 31, further comprising means for preventing the second node from placing the data provided by the third node in a cache associated with the second node in response to the second conflict response provided by the first node (column 14, lines 36-45).

As per claim 33, Gupta discloses the system of claim 29, wherein the means for providing the data from the third node to the first node is operative to provide shared data to the first processor, the means for placing the data provided by the third node placing the shared data in the cache associated with the first processor, the system further comprising means for associating an invalid state with the data in the cache associated with the first processor (column 25, lines 38-55).

As per claim 35, Gupta disclose the method of claim 34, wherein providing a source broadcast request from the first node comprises providing a source broadcast read request from the first node, the method further comprising:

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• Providing the requested data to the second node from the third node in response to the pending broadcast read request of the second node (column 3, lines 16-25, 59-65, column 5, lines 20-25, column 10, lines 47-50);

Placing the data provided to the second node by the third node in a cache
associated with the second node (column 4, lines 4-6, column 10, lines 61-67, column
13, lines 30-35, 60-65).

Gupta does not explicitly disclose:

• Providing a read conflict response from the first node to the second node in response to the pending broadcast read request of the second node, the read conflict response from the first node indicating that the pending broadcast read request of the second node conflicts with the source broadcast read request provided by the first node. However, the use and advantages for the first node receiving a read conflict response to the broadcast request from the first node, the read conflict response indicating that a second node has a pending broadcast read request for the data is well known to one skilled in the relevant art at the time the invention was made as evidenced by the teachings of Ari (paragraphs [0012, 0026, 0032]).

Therefore, one of ordinary skill in art at the time the invention was made would have found it obvious to incorporate or implement Ari's first node receiving a read conflict response to the broadcast request from the first node in Gupta system in order to determine what action should be taken.

As per claim 36, Gupta discloses the method of claim 34, wherein providing a broadcast request from the first node comprises providing a broadcast write request from the first node, the method further comprising:

 Preventing placement of the data in a cache associated with the second node in response to the second conflict response provided by the first node (column 14, lines 38-45).

Gupta does not explicitly disclose:

 Providing a second conflict response from the first node to the second node in response to the pending broadcast read request of the second node, the second conflict response from the first node indicating that the pending broadcast read request of the second node conflicts with the broadcast write request provided by the first node.

However, the use and advantages for the first node receiving a read conflict response to the broadcast request from the first node, the read conflict response indicating that a second node has a pending broadcast read request for the data is well known to one skilled in the relevant art at the time the invention was made as evidenced by the teachings of Ari (paragraphs [0012, 0026, 0032]).

Therefore, one of ordinary skill in art at the time the invention was made would have found it obvious to incorporate or implement Ari's first node receiving a read conflict response to the broadcast request from the first node in Gupta's system in order to determine what action should be taken.

As per claim 37, Gupta discloses the method of claim 36, further comprising reissuing the source broadcast read request of the second node as a forward progress protocol read request for the data from the second node in response to the second conflict response provided by the first node (column 11, lines 40-55).

As per claim 38, Gupta disclose a computer system comprising a hybrid cache coherency protocol that employs source broadcast protocol mode and a forward progress protocol mode, the computer system being operative to fill a cache line associated with a source node with requested data provided in response to a source broadcast protocol mode request for the data when there is a source broadcast protocol read conflict with another node in the computer system, the computer system being further operative to reissue a request for the data from a source node using a forward progress protocol mode request for the data when there is a source broadcast protocol second conflict with another node in the computer system (column 4, lines 4-6, column 10, lines 61-67, column 13, lines 30-35, 60-65).

#### Response to Arguments

#### The Office notes the following argument(s):

- Arimilli does not teach or suggest the use of a read conflict response. (a)
- Cypher, Arimilli, or Bauman does not teach the conflict state machine which is (b) part of the first processor.

(c) Cypher, Arimilli, or Bauman fails to teach a third node that provides requested data to first node in response to a broadcast request.

### In response to:

(a) Applicant's argument filed has been fully considered but is not persuasive.

Arimilli teaches providing a snoop response indicating that the second agent has a pending request (paragraphs 0012, 0051]).

Therefore, Arimilli indeed teaches the use of read conflict response.

(b)-(c) Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BARBARA N. BURGESS whose telephone number is (571)272-3996. The examiner can normally be reached on M-F (8:00am-4:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Barbara N Burgess Examiner Art Unit 2157

March 3, 2008

MOUSTAFA MEKY PRIMARY EXAMINER

wolf the